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SECRET

CENTRAL INTELLIGENCE AGENCY
OFFICIAL ROUTING SLIP

TO		INITIALS	DATE
1	R&DB	JAW 31 REGD	25X1
2	[redacted]	EE	2-5-52
3	Info on 2054(B)	DLH	2-6-52
4		HR	
5			
FROM		INITIALS	DATE
1	C&ERB	[redacted]	25 Jan
2			
3			25X1

☐ APPROVAL ☐ INFORMATION ☐ SIGNATURE
☐ ACTION ☐ DIRECT REPLY ☐ RETURN
☐ COMMENT ☐ PREPARATION OF REPLY ☐ DISPATCH
☐ CONCURRENCE ☐ RECOMMENDATION ☐ FILE

REMARKS: Attached is list of requirements for small D/F units [redacted]

[redacted] 25X1

25X1

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DF for Mbe 6 or LD Radio Station

Requirements:

1. Range of approximately 500 miles.
2. AC operation at 100 volts. (Not 115 or 120)
3. Visual indicator preferred but aural can be used.
4. Have provision for sense indication.
5. Must be accurate on CW signals.
6. Antenna must not be too large. (Large loop is ok but Adcock type is too large)
7. Simple and rugged construction to keep maintenance at minimum.
8. Must be simple to operate.
9. Bearing must be obtainable quickly.
10. Simple to install. Not too heavy.
11. Frequency range from 3 to 15 mc.

SCR 206 type may be appropriate. Frequency range is from 0.2 to 18 mc and operating weight is only 150 pounds. Disadvantage is that a storage battery and dynamotor is used for power supply. It may be possible to adapt this set to AC operation. Range is not given but should be sufficient for our purpose.

Hand-portable DF sets for local DF work

Requirements:

1. Must be light and compact. [redacted] is about the right size but can be slightly larger and contained in small suitcase.) 25X1
2. Frequency range from 3 to 15 mc.
3. Dry cell operation at relatively low voltage and using standard batteries which are easy to ~~xxxx~~ obtain. (Small 67.5 volt batteries such as those furnished to the [redacted] is good) 25X1
4. Low current drain for maximum battery life.
5. Tubes which are easily obtainable. (Miniatures preferred)
6. Band switch. (No plug-in coils)
7. Miniature earphones that can be inserted in ear.
8. Meter in circuit to indicate signal strength. (Sensitive meter desired)
9. Provision for sense indication.
10. Self contained loop antenna.
11. Can be relatively broad in tuning but must be sensitive enough for 10-20 mile range. Size of loop may make such range impossible but should strive for maximum range.
12. Must be accurate on CW signals.
13. Must not require ground.
14. Must have sharp null.

7

2010

4/12/60

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SECURITY INFORMATION

00523

Head, Receiving Section

21 January 1952

Chief, I. &. T. Section

Direction finders - SCR-504A, Inspection of
Consignor: U. S. Army
Consignee: Account 1

1. An inspection by the I. &. T. Section of 3 each direction finders - SCR-504A, reveals that they are complete and acceptable.

2. The direction finders have been modified in accordance with instructions from the Engineering Office and have been turned over to the Receiving Section for further disposal.

[redacted]

25X1

HHM/pm

cc: Eng
Crono
Acct .1
Dev
Admin
I&T

How many units?
File - RS-8

DOCUMENT NO. 6
NO CHANGE IN CLASS. ☐
☐ DECLASSIFIED
CLASS. CHANGED TO: TS S ©
NEXT REVIEW DATE: 2016
AUTH: HR 70-2
DATE: 4/12/90 REVIEWER: 037169

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